	pplication No. Applicant(s)		
Notice of Allowability	09/483,337	KOOL, ERIC T.	
	Examiner	Art Unit	1
	L. E. Crane	1623	*
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIC of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED ir other appropriate commu BHTS. This application is sand MPEP 1308.	n this application. If not includ unication will be mailed in due	ed course. <b>THIS</b>
1. This communication is responsive to the amendment of Aug	<u>just 12, 2005</u> .		
2. The allowed claim(s) is/are <u>56-60,81 and 82</u> .			
3. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have	been received. been received in Applicatio	on No	ation from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives	ENT of this application.  ted. Note the attached EXA	AMINER'S AMENDMENT or N	
5. CORRECTED DRAWINGS ( as "replacement sheets") must	be submitted.		
(a) ☐ including changes required by the Notice of Draftsperso		v ( PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.8	4(c)) should be written on th	ne drawings in the front (not the	ə back) of
each sheet. Replacement sheet(s) should be labeled as such in th	_	` '	
6. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F			Note the
Attachment(s)			•
1. Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application (PT	O-152) -
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date <u>7/8 &amp; 11/9/2005</u> .	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 8/12/2005		Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🗌 Examiner's	Statement of Reasons for Allo	owance
	9. 🗌 Other	L. E. Crane, Ph.D., Primary Patent Exa Technology Center	aminer

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An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. §1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

Claims 1-55 and 61-80 were cancelled without prejudice to the filing of divisional or continuation applications.

Claim 56 has been replaced in its entirety by the following:

-- 56. A method for detecting a genetic polymorphism in a target nucleic acid comprising:

providing a mutant polymorphism oligonucleotide probe that is complementary to a region on the target nucleic acid that comprises the genetic polymorphism;

providing a universal oligonucleotide probe capable of binding to the target nucleic acid at a region that is conserved in the analogous wild-type nucleic acid;

wherein one oligonucleotide probe constitutes an upstream oligonucleotide having, as its 5'-end, a ribo- or deoxyribonucleoside wherein the 5'-hydroxyl group thereof has been replaced by a leaving group, and the other oligonucleotide probe constitutes a downstream oligonucleotide comprising, at its 3' end, a nucleoside comprising a 3' functional group selected from the group consisting of 3'-phosphoroselenoates such that, when both probes are bound to the target nucleic acid, an end of the universal oligonucleotide probe is substantially adjacent to an end of the mutant polymorphism oligonucleotide probe so as to position the 5' leaving group and the 3'-functional group in close proximity to one another;

contacting the target nucleic acid with the universal oligonucleotide probe and the mutant polymorphism oligonucleotide probe to yield an autoligated oligonucleotide product comprising the universal oligonucleotide probe and the mutant polymorphism probe; and

detecting the presence of the autoligated oligonucleotide product, wherein the presence of an autoligated product indicates the presence of a genetic polymorphism in the target nucleic acid. --

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The following new claims have been added:

- -- 81. The method of claim 56 wherein the target nucleic acid is DNA. --
- -- 82. The method of claim 56 wherein the target nucleic acid is RNA. --

Authorization for this Examiner's Amendment was given in a telephone interview with Ms. Victoria A. Sandberg on November 9, 2005.

Papers related to this application may be submitted to Group 1600 via facsimile transmission (FAX). The transmission of such papers must conform with the notice published in the Official Gazette (1096 OG 30, November 15, 1989). The telephone number to FAX (unofficially) directly to Examiner's computer is 571-273-0651. The telephone number for sending an Official FAX to the PTO is 703-872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner L. E. Crane whose telephone number is **571-272-0651**. The examiner can normally be reached between 9:30 AM and 5:00 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. S. Anna Jiang, can be reached at **571-272-0627**.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group 1600 receptionist whose telephone number is **571-272-1600**.

All Post-Allowance Correspondence concerning this application must be mailed to:

BOX ISSUE FEE
COMMISSIONER FOR PATENTS
WASHINGTON, DC 20231

OR you can FAX them to the Office of Patent Publications at 703-308-5083, in order to expedite the handling of such correspondence as amendments under 37 C.F.R. §1.312; Information Disclosure Statements (IDS's), and formal drawings. Sending Post-Allowance papers to Technology Center 1600 will only cause <u>delays</u> in matching papers with the case.

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For information concerning status of correspondence sent after receipt of the Notice of Allowance, please contact the Correspondence Branch at <u>703-305-8027</u>. The Notice of Allowance also has an insert containing contact information for other items, including Issue Fees, receipt of formal drawings, and the status of the application.

LECrane: lec 11/10/2005

L. E. Crane, Ph.D., Esq.

Primary Patent Examiner Technology Center 1600